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Proposed Maximum Residue Limit PMRL2018-41

Afidopyropen

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Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) has received applications to register technical grade afidopyropen and the end-use products Versys Insecticide and Sefina Insecticide for use in Canada on various commodities.

The evaluation of these afidopyropen applications indicated that the end-use products have value, and the human health and environmental risks associated with their proposed uses are acceptable. Details regarding these applications can be found in Proposed Registration Decision PRD2018-15, *Afidopyropen; Sefina Insecticide; Versys Insecticide*, posted to the Canada.ca website on 30 August 2018.

Before registering a pesticide for food use in Canada, the PMRA must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to label directions and that such residues will not be a concern to human health. This quantity is then legally specified as a maximum residue limit (MRL). An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

In addition, the PMRA is proposing to specify MRLs for afidopyropen on citrus fruits, cottonseeds, and tree nuts to permit the import and sale of food containing such residues. The PMRA has determined the quantity of residues that are likely to remain in or on the imported commodities when afidopyropen is used according to label directions in the exporting country, and that such residues will not be a concern to human health. Details regarding the proposed MRLs on imported commodities can also be found in PRD2018-15.

Consultation on the proposed MRLs for afidopyropen is being conducted via PRD2018-15. Information regarding the proposed MRLs can be found in Sections 3.5 and 7.1. Supporting field trial residue data are also provided in the PRD. The PMRA invites the public to submit written comments on the proposed MRLs for afidopyropen in accordance with the guidance found in PRD2018-15.

To comply with Canada's international trade obligations, consultation on the proposed MRLs are also being conducted internationally by notifying the World Trade Organization, as coordinated by Canada's Notification Authority and Enquiry Point.

The proposed MRLs for afidopyropen are as follows:

Table 1 Proposed Maximum Residue Limits for Afidopyropen

Common Name	Residue Definition	MRL (ppm)[1]	Food Commodity
Afidopyropen	[(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-	5.0	*Brassica* leafy greens (crop subgroup 4-13B)
		3.0	Leaf petioles vegetables (crop subgroup 22B)

Common Name	Residue Definition	MRL (ppm)[1]	Food Commodity
	trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl cyclopropanecarboxylate	2.0	Leafy greens (crop subgroup 4-13A)
		0.7	Cucurbit vegetables (crop group 9)
		0.5	*Brassica* head and stem vegetable (crop group 5-13), dried tomatoes
		0.4	Citrus oil
		0.2	Fruiting vegetables (crop group 8-09)
		0.15	Citrus fruits (revised) (crop group 10)
		0.08	Cottonseeds (revised) (crop subgroup 20C)
		0.03	Stone fruits (crop group 12-09)
		0.02	Pome fruits (crop group 11-09)
		0.01	Tuberous and corm vegetables (crop subgroup 1C), tree nuts (crop group 14-11), dry soybeans, eggs, fat, meat, and meat byproducts of cattle, goats, hogs, horses, poultry and sheep
		0.001	Milk

[1] ppm = parts per million

MRLs are proposed for each commodity included in the listed crop groupings in accordance with the Residue Chemistry Crop Groups webpage in the Pesticides and Pest Management section of the Canada.ca website.

MRLs established in Canada may be found using the Maximum Residue Limit Database on the Maximum Residue Limits for Pesticides webpage. The database allows users to search for established MRLs, regulated under the *Pest Control Products Act*, both for pesticides or for food commodities.

International Situation and Trade Implications

Afidopyropen is a new active ingredient that is concurrently being registered in Canada and the United States. The MRLs proposed for afidopyropen in Canada are the same as corresponding tolerances to be promulgated in the United States, except for livestock commodities, in accordance with Table 2.

Once established, the American tolerances for afidopyropen will be listed in the Electronic Code of Federal Regulations, 40 CFR Part 180, by pesticide.

Currently, there are no Codex MRLs[1] listed for afidopyropen in or on any commodity on the Codex Alimentarius Pesticide Index webpage.

Table 2 Comparison of Canadian MRLs and American Tolerances (where different)

Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)
Eggs, fat, meat, and meat byproducts of cattle, goats, hogs, horses, poultry and sheep	0.01	Not required[1]
Milk	0.001	Not required[1]

[1] As per 40CFR180.6(a) for livestock.

Next Steps

The PMRA invites the public to submit written comments on the proposed MRLs for afidopyropen up to 75 days from the date of publication of this document. Please forward your comments to Publications (see the contact information on the cover page of this document). The PMRA will consider all comments received before making a final decision on the proposed MRLs. Comments received will be addressed in a separate document linked to this PMRL. The established MRLs will be legally in effect as of the date that they are entered into the Maximum Residue Limit Database.

[1] The Codex Alimentarius Commission is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.